



LEGEND	Symbol
EXISTING FOUL SEWER	EX-FW
EXISTING SURFACE WATER DITCH	EX-SWD
PROPOSED FOUL SEWER	FW
PROPOSED SURFACE WATER SEWER	SW
PROPOSED SDC additional 450mm SW	SWH
PROPOSED 150mm PERFORATED PIPE (PERMEABLE PAVING COLLECTOR PIPE)	PP
PROPOSED PERMEABLE PAVING	PP
PROPOSED PERMEABLE COLLECTION INSPECTION CHAMBER	PC
PROPOSED TREE PIT	TP
PROPOSED OVERFLOW FROM TREE PITS	OF
PROPOSED ROAD GULLY	RG
PROPOSED DRAINAGE BUTT	DB
PROPOSED REAR GARDEN INFILTRATION TRENCH WITH PERFORATED COLLECTOR PIPE	RGIP
PROPOSED SWALE	SW
PROPOSED KERB INLET	KI
PROPOSED SWALE COLLECTION CHAMBER WITH GRATED LID	SCC
SWALE CHECK DAM	SCD



There are 30 units in the proposed development.  
 446/60 x 3/60 x 2 = 11.888/60 or 11.888/60 x 2  
 11.888/60/24 = 0.15486/24 (100%)  
 PEAK FLOW = 0.15486 x 6 = 0.92916/SEC (100%)  
 With water require that we remove 30mm EDWF from the foul network.  
 3 x 0.202/Sec = 2.286/Sec, needs to be removed from foul network.  
 Using the rational method to calculate the equivalent contributing area  
 C=2.78 x 1 x A x C v or reworking A=Q/2.78 x 1 x C v x C  
 C=2.78/Sec  
 A=30mm/hr subs manual recommends 35mm/hr which reduces area below 246m<sup>2</sup> instead of 286m<sup>2</sup>  
 C=2.5 as recommended in subs manual  
 C=1.3 as recommended in subs manual  
 A=2.78/2.78 x 30 x 0.9 x 1.3 = 0.02577m<sup>2</sup> or 256m<sup>2</sup>  
 Area to be found is 286m<sup>2</sup>.  
 Area proposed 820m<sup>2</sup>.

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- NOTES**
- For setting out refer to Architects drawings.
  - This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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Rev. No.	Date	REVISION NOTE	Drn. By	Chk. By
P1	15.01.2022	ISSUED FOR PLANNING	SC	SS
P2	10.02.2022	REVISED AND RESUBMITTED FOR PLANNING	SC	SS
P3	21.11.2022	REVISED AND RESUBMITTED FOR RFI	SC	SS
P4	02.12.2022	ROAD LAYOUT REVISED	SC	SS
P5	23.02.2023	REVISED AND RESUBMITTED FOR RFI	SC	SS
P6	26.03.2023	REVISED AND RESUBMITTED FOR CA	SC	SS

Architect	JFOC Architects Proposed Development at Newcastle, Co. Dublin
Title	Proposed Drainage Layout
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**CS Consulting Group**  
 DUBLIN | LONDON | LIMERICK

19-20 Dame Street, Dublin 2  
 T: +353 (0)1 5482563  
 E: info@csconsulting.ie  
 W: www.csconsulting.ie

Quality ISO 9001:2015  
 Environment ISO 14001:2015  
 Health & Safety OHSAS 18001:2007